IN THE SPECIFICATION:

Please amend the last paragraph starting at page 25 and continuing onto page 26 as follows:

-- There is a method for generating the list of modes and transitions for every subsection, section and plant if process historical data is available for every tag. This method is as shown in Fig. 4 and is based on dividing the plant historical data into regions of modes and transitions, using the prior developed description of the process hierarchical decomposition. This method also requires other selected process information including limits for each tag ~~andpre specified~~ and pre-specified values for tuning parameters. The limits required include the maximum and the minimum value that can be reported by the transmitter for each tag, the transmitter range for each tag, etc. The pre-specified tuning parameters include a threshold for each tag. This threshold is defined to be the maximum allowable variation within a window for constancy and is typically selected to be a small percentage (~5%) of the transmitter range. --

NUS-14